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🔍 Title: **JP58082462A2: DETECTION OF OPERATION OF EXPLOSION-PREVENTIN  
DEVICE PROVIDED IN BATTERY**

🔍 Derwent Title: Detecting leakage of gas from means to protect sealed type cell - such as nickel-cadmium cell and lead battery from explosion. NoAbstract  
[\[Derwent Record\]](#)

🔍 Country: **JP Japan**

🔍 Kind: **A**

🔍 Inventor: **KAIYA HIDEO;  
TSUDA SHINGO;  
YAMAGA MINORU;**

🔍 Assignee: **MATSUSHITA ELECTRIC IND CO LTD**  
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🔍 Published / Filed: **1983-05-18 / 1981-11-12**

🔍 Application **JP1981000182053**

Number:

🔍 IPC Code: **H01M 2/12;**

🔍 Abstract: **PURPOSE:** To increase the efficiency of a gas leakage test by providing a sealing plate with a paraffin film, and affirming whether the paraffin film was broken or opened due to pressure developed during a gas leakage or not by means of a pin-hole detector.

**CONSTITUTION:** In a battery which has a sealing plate 3 coated with a paraffin film as indicated in Fig. (A), when any gas leakage occurs during charging, the pressure of a valve space part 17 increases due to gas flowing into the part 17 from a penetrating hole 5 provided in a positive terminal provided with an explosion-preventing device, and the paraffin film breaks to form an opening 18 as indicated in Fig. (B). After the opening 18 is formed due to the expansion caused by the internal pressure of the paraffin film 10 in such a manner as mentioned above, when a high alternating voltage is applied across electrodes 11 and 12 by use of a circuit keying device 16, electric discharge develops between the electrode 12 and the sealing plate 3 through the opening 18, and a current detector 15 detects the current. As a result, the detector 15 indicates that the paraffin film 10 is opened, and displays that the gas leakage has occurred.

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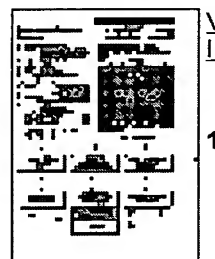
🔍 Family: **None**


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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
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	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes
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Other Abstract  
Info:

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **56182053**(51) Intl. Cl.: **H01M 2/12**(22) Application date: **12.11.81**

(30) Priority:	(71) Applicant: <b>MATSUSHITA ELECTRIC IN. LTD</b>
(43) Date of application publication: <b>18.05.83</b>	(72) Inventor: <b>KAIYA HIDEO TSUDA SHINGO YAMAGA MINORU</b>
(84) Designated contracting states:	(74) Representative:

**(54) DETECTION OF  
OPERATION OF  
EXPLOSION-PREVENTING  
DEVICE PROVIDED IN  
BATTERY**

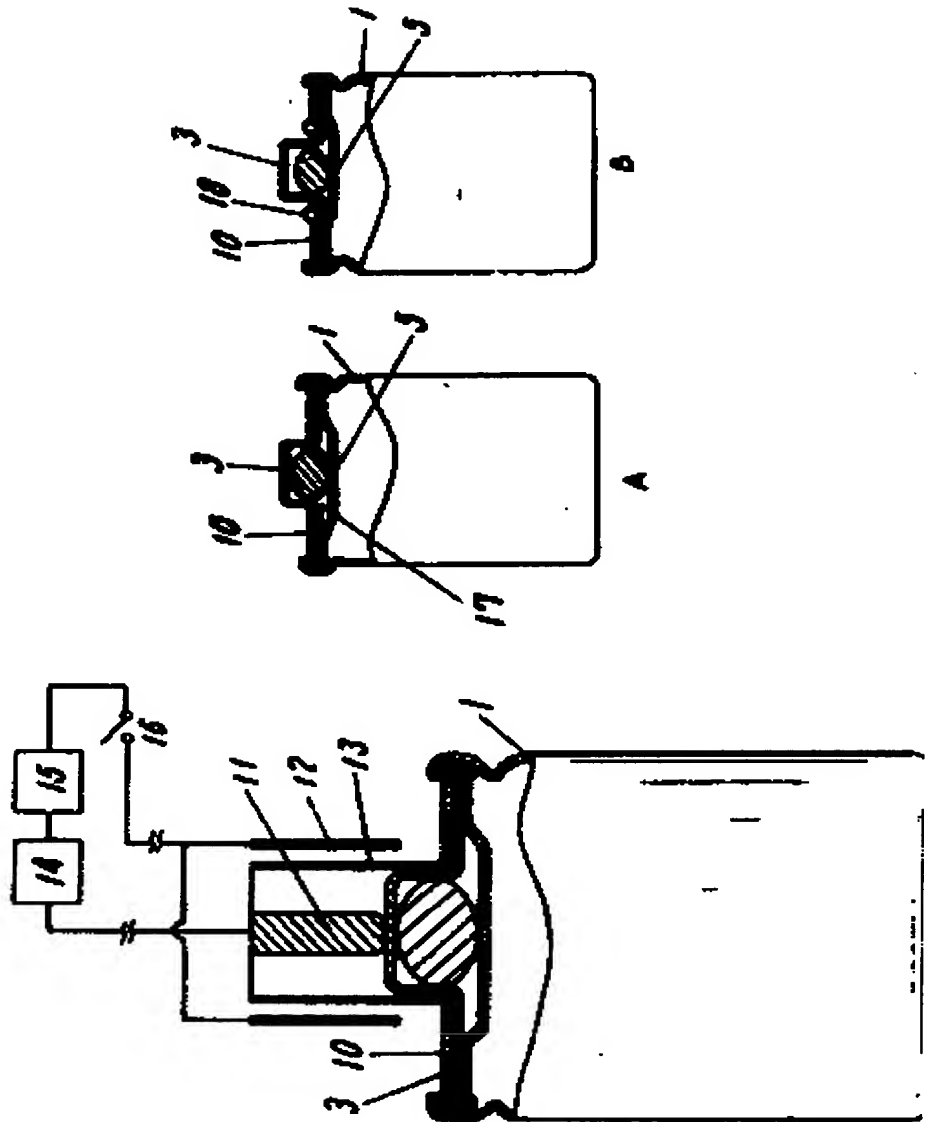
(57) Abstract:

**PURPOSE:** To increase the efficiency of a gas leakage test by providing a sealing plate with a paraffin film, and affirming whether the paraffin film was broken or opened due to pressure developed during a gas leakage or not by means of a pin-hole detector.

**CONSTITUTION:** In a battery which has a sealing plate 3 coated with a paraffin film as indicated in Fig. (A), when any gas leakage occurs during charging, the pressure of a valve space part 17 increases due to gas flowing into the part 17 from a penetrating hole 5 provided in a positive terminal provided with an explosion-preventing device, and the paraffin film breaks to form an

opening 18 as indicated in Fig. (B). After the opening 18 is formed due to the expansion caused by the internal pressure of the paraffin film 10 in such a manner as mentioned above, when a high alternating voltage is applied across electrodes 11 and 12 by use of a circuit keying device 16, electric discharge develops between the electrode 12 and the sealing plate 3 through the opening 18, and a current detector 15 detects the current. As a result, the detector 15 indicates that the paraffin film 10 is opened, and displays that the gas leakage has occurred.

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